



Roy F. Weston, Inc.
Federal Programs Division
Suite 201
1090 King Georges Post Road
Edison, New Jersey 08837-3703
908-225-6116 • Fax 908-225-7037

231800

A standard linear barcode is located at the bottom right of the page, consisting of vertical black bars of varying widths on a white background.

**SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019**

START-02-F-00517

TRANSMITTAL MEMO

To: Nicholas Magriples, OSC
Removal Action Branch, U.S. EPA Region II

From: Smita Sumbaly, Data Reviewer
Kathy Campbell, PM
START Region II

Subject: Cornell-Dubilier Electronics Site
Data Validation Assessment

Date: September 3, 1996

The purpose of this memo is to transmit the following information:

- Data validation results for the following parameters:

TCL PCBs	19 samples
Matrices and Number of Samples	
Soil	18 samples
Aqueous	1 sample
Sampling date:	July 16, 1996.

The final data assessment narrative and original analytical data package are attached.

cc: START PM Kathy Campbell
START FILE TDD #:02-9604-0003
TDD #:02-9506-0021
PCS #:1416

U. S. ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

DATE: September 3, 1996

TO: Nicholas Magriples, OSC
USEPA Region II

FROM: Smita Sumbaly
START Data Review Team

SUBJECT: QA/QC Compliance Review Summary

As requested quality control and performance measures for the data packages noted have been examined and compared to EPA standards for compliance. Measures for the following general areas were evaluated as applicable:

Data Completeness	Blanks
Spectra Matching Quality	DFTPP and BFB Tuning
Surrogate Spikes	Chromatography
Matrix Spikes/Duplicates	Holding Times
Calibration	Compound ID (HSL, TIC)

Any statistical measures used to support the following conclusions are attached so that the review may be reviewed by others.

Summary of Results

	I TCL-PCBs	II	III	IV
Acceptable as Submitted	_____	_____	_____	_____
Acceptable with Comments	X	_____	_____	_____
Unacceptable, Action Pending	_____	_____	_____	_____
Unacceptable	_____	_____	_____	_____
Data Reviewed by:	<u>Smita Sumbaly</u>	<u>BS</u>		Date: <u>09/03/96</u>
Approved By:	<u>JM</u>			Date: <u>9/5/96</u>
Area Code/Phone No.:	<u>(908) 225-6116</u>			

NARATIVE

CASE No. 1416

SITE NAME: Cornell-Dubilier Electronics Site

South Plainfield, New Jersey.

Laboratory Name: Industrial Corrosion Management, Inc. (ICM),
Randolph, New Jersey.

INTRODUCTION:

The laboratory's portion of this Case consisted of 18 - soil and 1- Aqueous samples collected on July 16, 1996.

The laboratory reported No problem(s) with the receipt of these samples.

The laboratory reported No problems with the analyses of Target Compound List (TCL),
polychlorinated biphenyls (PCBs) analytical parameters.

The evaluator has commented on the criteria specified under each fraction heading. All criteria have been assessed, but no discussion is given where the evaluator has determined that criteria were adequately performed or require no comment. Details relevant to these comments are given on the following forms.

REGION II START DATA ASSESSMENT REPORT

RFP PROJECT #: 1416

CASE #: 239994

SDG #: RIN3

LAB: Industrial Corrosion Management, Inc.

LAB CODE: ICM

SITE: Cornell Dubilier Electronics

ANALYSIS: Target Compound List (TCL) - polychlorinated biphenyls (PCBs)

MATRIX:

CONTRACTOR: START

REVIEWER: Smita Sumbaly

Water: 1

CERCLIS ID #:

Soil/Sediment: 18

Liquid: NA

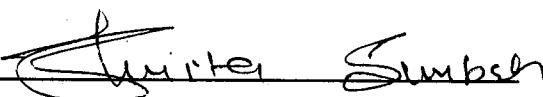
The current Functional Guidelines for evaluating organic data have been applied.

All data are valid and acceptable except those analytes which have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detects), "R" (unusable), or "JN" (presumptive evidence for the presence of the material at an estimated value). All action is detailed on the attached sheets.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Analytical data qualified as "JN" or "R" may not be used to demonstrate compliance with Toxicity Characteristic or Land Ban Regulations.

**Reviewer's
Signature:**



Date: 9/4/1996

Verified By:



Date: ___/___/19___

On July 16, 1996, USEPA Region II personnel collected 18 investigative soil samples and one low concentration aqueous rinsate blank for Target Compound List (TCL) - polychlorinated biphenyl compounds - PCBs from the Cornell Dubilier Electronics Site, South Plainfield, New Jersey. Within twenty-four hours of collection, samples were hand-delivered to Industrial Corrosion Management (ICM), Inc, Randolph, New Jersey. The laboratory verified that samples were received intact and properly custody sealed. (sample cooler temperature recorded at 3.0°C).

Target Compound List (TCL) organic analyses for polychlorinated biphenyls - PCBs were performed following the Contract Laboratory Program (CLP) Statement of Work (SOW) number OLM03.0.

Client identification (ID) and laboratory ID numbers:

<u>Client ID No.</u>	<u>Laboratory ID No.</u>	<u>Matrix</u>
SS23	239997	Soil
SS24	239999	Soil
S23	239996	Soil
S24	239998	Soil
S25	240000	Soil
S29	240006	Soil
TP1A ³	239987	Soil
TP1B	239988	Soil
TP2A	239989	Soil
TP2B	239990	Soil
TP3A	240003	Soil
TP3B	240004	Soil
TP4A	240005	Soil
TP5A	240001	Soil
TP5B	240002	Soil
TP6A	239991	Soil
TP6B	239992	Soil
TP8A ¹	239993	Soil
RIN3 ²	239994	Water

- 1) Soil sample TP8A is a field duplicate sample of soil sample TP6A.
- 2) Aqueous Rinsate blank sample RIN3 is associated with the above soil samples.
- 3) Soil sample TP1A was designated in the field and on the Chain-of-Custody record for Quality Control (QC) analyses.

A.2.2 Data Assessment (continued):

1. HOLDING TIMES:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following analytes in the samples shown were qualified because of holding time:

PCBs : Contractual extraction and analysis holding time requirements were met by the laboratory for all samples associated with RFP No. 1416 (extraction within ten (10) days of the Validated Time of Sample receipt (VTSR) for non-aqueous samples; analysis within forty (40) days of extraction).

A.2.2 Data Assessment (continued):

2). BLANK CONTAMINATION:

Quality Assurance (QA) blanks [i.e., method, trip, field or rinse blanks] are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common contaminants), the analytes are qualified as non-detects, "U". The following analytes in the samples shown were qualified with "U" for these reasons:

A) Method Blank Contamination

PCBs - The following compounds were qualified as non-detected "U" in the associated samples due to method blank contamination:

<u>Compound</u>	<u>Associated Samples</u>
-----------------	---------------------------

PCB compounds were not detected by the laboratory in the associated method blank; samples data were not qualified based on method blank contamination.

B) Field or Rinse Blank Contamination

PCBs - The following compounds were qualified as non-detected "U" in the associated samples due to rinseblank contamination:

<u>Compound</u>	<u>Associated Samples</u>
-----------------	---------------------------

PCB compounds were not detected by the laboratory in the associated rinsate blank; sample data were not qualified based on rinsate blank contamination.

SDG NARRATIVE

LABORATORY NAME: Industrial Corrosion Management, Inc.
 LOCATION: 1152 Route 10, Randolph, NJ 07869
 CASE NAME: RFP No: 1416
 CASE NUMBER: -----
 SDG NUMBER: RIN3

Pesticides/PCBs:

1. Column utilized for Pesticide/PCB analysis: J&W Scientific DB608 30m x 0.53 ID, 0.83 um film thickness and J&W Scientific DB1701 30m x 0.53 ID, 1.0 um film thickness.

2. The following symbols will be used on the Pesticides/PCBs chromatograms:

OW = outside window
 NP = No pattern of multicomponent compounds
 <0.5 CRQL = Less than the CRQL value
 NC = Not confirmed
 NT = Non-targeted compound

3. Due to software limitations, the following samples could not be reported as part of the analytical sequence on FORM VIII PEST: GPC BLK, GPC PEST, GPC PCB, Florisil Check and 2,4,5 Trichlorophenol.

4. Form VIII PEST: Surrogates are flagged as being outside the QC limits due to the surrogate being diluted out or interference from the high concentration of Aroclor in the sample.

5. Since high concentrations of Aroclor 1254 were detected in many of the samples, dilutions were prepared such that the resulting extract concentrations were in the acceptable quantitation range as defined in Section D.10.2.3.3 of the SOW, OLM03.1. In addition, the extract was analyzed at a concentration 10 times more concentrated as that within the quantitation range as per Section D.10.2.3.3. Results of the more concentrated run should have been flagged with an "E" to indicate their unreliability due to exceeding the calibration range. For some reason the new software we are using for this SOW version did not add this flag.

We should, therefore, caution that for every sample that was analyzed at more than one dilution, the results of the more diluted run should be considered as the reliable and useable number.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his designee, as verified by the following signature.

Richard S. Levine
 Laboratory Manager

9/4/96

Date

07/10/96

Ms Smita Sumbaly
ICM Laboratories
1152 Route 10
Randolph, NJ 07869

Dear Smita,

ICM would like to have an additional week to deliver the hardcopy for RFP 1416 received by our lab on 07/01/96. We also request that you waive the cumulative reduction in charges for this extension. Our reasons for this request are as follows:

1. At least a third of the samples require between a 5 and 10,000 times dilution for PCBs which has created a great deal of unanticipated work. At least 90 more runs were needed to get all of the dilutions in range and to meet the specifications required in the CLP SOW.
2. We lost power twice this week due to the thunderstorms which set back our production schedule.

We will be able to provide FAX preliminary data in the two weeks required but the results may change slightly if reanalysis or more dilutions are needed. We will refax finalized data as soon as it is available.

This extra time is needed in order for us to provide the high quality report which meets our standards of excellence. We look forward to a favorable response to this request.

Sincerely

Matt Cordova
Matt Cordova

Production Manager

Approved &
Accepted 7/10/96
John S. Sumbaly
for Smita Sumbaly

REGION II ANALYTICAL SERVICES REQUEST FORM

(PDR) JUN 1994

TO: Lisa Guarneiri, DPO
 FROM: N. MAGRIPLES, OSC
 DATE: 25 JUNE '96

96-06-0021N. Magriples

Site Name: CORNELL-DUBILLIER ELECTR.
 Site Location: SOUTH PLAINFIELD NJ
 Site ID#: 62
 Site TDD#: 02-9604-0003
 PCS #: 1383

Date of Request: 25 JUNE '96
 Sampling Date: 27 JUNE - 9 JULY
 Proposed samples
 Delivery to Lab:
 Turnaround: Verbal: 2 WEEKS
 Written: 3 WEEKS

Note: Lab did not charge us for this analysis.

# of Samples	Sample Type	Analysis Required	QA/QC Required	Unit Cost	Analysis Cost
✓ 4 (3+1)	SOIL	TCL VOLATILES	QA/QC	355.00	1065.00
✓ 4 (3+1)	SOIL	TCL SEMIVOLATILES			
✓ 79 (78+1)	SOIL	TCL PCB'S		80.00	6240.00
✓ 4 (3+1)	SOIL	TAL METALS		100.00	300.00
✓ 4 (1)	SOIL	TCL P		550.00	2200.00
✓ 79 (75+4)	SOIL	TOTAL METALS: Cd, Cr, Pb, Hg, As		65.00	4875.00
3	SOIL	TOTAL ORGANIC CARBON		20.00	60.00
3	SOIL	GRAIN SIZE (SIEVE)		55.00	165.00
5 (4+1)	OIL/LIQUID	TCL VOLATILES		90.00	360.00
5 (4+1)	OIL/LIQUID	TCL PCB'S		80.00	320.00
5 (4+1)	OIL/LIQUID	TOTAL METALS: Cd (Cr, Pb, Hg, As)		65.00	260.00
6	Liquid	TCL Vol, Semiv, In-METALS, TECO		535.00	3210.00
		TCL PCB'S			Total: 19,055.00

Total prior analytical services funding at this site 1900.00

Name of Laboratory	Contact	Date of Request	Date Reply Requested	Date of Reply	Analysis Total Cost
ICM, Inc.	Bianca Buckwalter	06/24/96	06/26/96	06/25/96	19,055.00

Justification for quick-turn-around:

Additional Comments: (justification for private analytical service)

START PM: K. CAMPBELLSTART Analytical Coordinator: Smita Sumbaly
Analytical Services TDD#: 02-96-06-00PCS#: 1416

START DATA SIGN-OFF SHEET

Task/Site: Cornell - Dubilier Electronics

TDD #: 02-9506-21

PCS #: 1416

Sampling Date: July 16, 1996.

Date Received: 8/19/96

DCN #: START-02-F-00517

Lab: JCM

Matrix: Sol.)

Samples: 18

Analysis: PCB's

Habitos

PCIS 3.

DATA PACKAGE CHAIN OF CUSTODY

DATA PACKAGE CHAIN OF CUSTODY					
RELINQUISHED BY:			RECEIVED BY:		
Signature:	Date:	Fraction:	Signature:	Date:	Fraction:
<i>Sunita Sumbel</i>	8/27	organic	<i>Sunita Sumbel</i>	9/4	organic

- ## 1. Data Reviewer

Smruti Sumbaly.
Name

09/04/196 Date

2. Group Leader/Peer Review

Name _____

Date

3. Approval (Group Leader/A Team Mgr.)

Jas. S. Cole
Name

Name _____

9/5/06

A.2.2 Data Assessment (continued):

4. CALIBRATION:

B) PERCENT RELATIVE STANDARD DEVIATION (%RSD) AND PERCENT DIFFERENCE (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be < 30% and %D must be < 25%. A value outside of these QC limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J"; and non-detects are flagged "UJ". If %RSD and/or %D grossly exceed QC criteria, non-detect data may be qualified "R".

For the PESTICIDE/PCB fraction, if %RSD exceeds 20% for all analytes except for the 2 surrogates (which must not exceed 30% RSD), qualify all associated positive results "J" and non-detects "UJ".

The following analytes in the samples shown were qualified for %RSD and %D:

Initial Calibration

PCBs - The following compounds were qualified as estimated "J" or rejected "R" in the associated samples because the linearity criteria or the percent relative standard deviation (%RSD) of the Initial Calibration is > 20% for either one or both GC columns:

<u>Compound</u>	<u>Percent Recovery</u>	<u>Qualifier</u>	<u>Associated</u>	<u>Sample(s)</u>
-----------------	-------------------------	------------------	-------------------	------------------

Initial Calibration %RSD and mean RRF values did not exceed specified QC criteria for GC/ECD columns DB-1701 and DB-5 ($\leq 20\%$). Data were therefore not qualified due to Initial Calibration QC criteria.

Continuing Calibration

Pest/PCBs - The following compounds were qualified as estimated "J" in the associated samples because the Continuing Calibration %D is between 20-90% for these compounds on the primary GC column:

<u>Compound</u>	<u>Associated Samples</u>
-----------------	---------------------------

The Continuing Calibration verifications associated with RFP No. 1416 are within acceptance QC criteria ($\%D \leq 15\%$). Additionally, the Retention Time (RT) for aroclor data on each of the respective GC columns are within the RT windows established during the associated Initial Calibration sequence. Qualification of data based on Continuing Calibration QC criteria was not required.

A.2.2 Data Assessment (continued):

5. SURROGATES/SYSTEM MONITORING COMPOUNDS (SMC):

All samples are spiked with surrogate/SMC compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate/SMC concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below. The following analytes for the samples shown were qualified because of surrogate/SMC recovery:

PCBs - The following compounds were either qualified as estimated "J" or rejected "R" due to Tetrachloro-m-xylene (TCX) and Decachlorobiphenyl (DCB) surrogate recoveries are both outside specified advisory QC limits (60-150%):

<u>Surrogate</u>	<u>Recovery</u>	<u>Qualifier</u>	<u>Compounds</u>	<u>Sample(s)</u>
Tetrachloro-m-xylene (TCX)	< 10%	"R"	6	TP2B, TP5A DL
		"J ¹ "	1	TP2B, TP5A DL
Decachlorobiphenyl (DCB)	< 10%	"R"	6	TP2B, TP5A DL
		"J ¹ "	1	TP2B, TP5A DL
TCX and DCB	> upper QC limits	"J ¹ "	1	SS23 DL, TP1A

¹ Positive values only were qualified as estimated "J" in the associated samples.

Surrogate recoveries outside QC criteria (< 10%) may be attributable to the required dilution of the extract during analysis and/or due to matrix interference.

Note: Data were qualified because recoveries for both surrogates are outside specified QC limits and above 10%, or either surrogate has a percent recovery below 10%.

Note: Advisory surrogates in samples failed quality control criteria. The recoveries were greater than the laboratory's internal minimum acceptance criteria limit of twenty percent (20%) and were therefore reported without further analysis. Recoveries below 20% indicate possible extraction problems. Method blanks prepared and analyzed concurrently with these samples met all contamination criteria. Data were therefore reported without further analysis by the laboratory.

A.2.2 Data Assessment (continued):

8. COMPOUND IDENTIFICATION:

B) PCB FRACTION:

The retention time of the reported compounds must fall within the calculated retention time windows for the two chromatographic columns.

PCBs - The results for the positive compound Arochlor-1254 fell within the retention time windows established during the initial calibration sequence for all samples associated with Case No. 1416.

PCBs - The results of Aroclor-1254 exceeded the highest calibration standard of the initial calibration sequence in the undiluted analysis, therefore samples were re-analyzed at a dilution to bring the results for Aroclor-1254 within the calibration range of the instrument.

PCBs - The following compounds were qualified as estimated "J" in the associated soil field duplicate samples (TP8A and TP6A) because the Relative Percent Difference (RPD) between the sample (S) and field duplicate sample (FD) is > 100% for the indicated compound(s):

<u>Compound</u>	<u>Associated Field Duplicate Samples</u>
-----------------	---

No qualification of data was performed by the data reviewer because field duplicate data met QC criteria.

A.2.2 Data Assessment (continued):

B) PESTICIDE FRACTION (continued):

PCBs - The following detected compounds were qualified due to a percent difference (%D) between the primary and confirmation columns > 25%:

<u>Compound</u>	<u>%D</u>	<u>Qualifier</u>	<u>Sample(s)</u>
Aroclor-1254	between 25-50%	"J"	S24, S29 DL, TP1B DL, TP3A, TP3A DL, TP5A & TP5B
	between 50-90%	"JN"	SS23, S23, TP4A & TP8A
	> 90%	"R"	S25

B) PESTICIDE FRACTION (continued):

PCBs - Due to professional judgement, the lower of two positive values generated by the laboratory from the primary and confirmation column analyses was used to report final results for the following pesticide compounds:

<u>Compound</u>	<u>Sample No.</u>	<u>Primary Column Value</u>	<u>Confirmation Column Value</u>
Aroclor-1254	SS24	15000	12000
	TP2B	160	150
	TP8A	240	130

Note: During the initial calibration sequence, absolute retention times are determined for all single response pesticides, the surrogates, and at least three major peaks of each multi-component analyte. Windows are centered around the mean absolute retention time for the analyte established during the initial calibration. Analytes are identified when peaks are observed in the retention time window for the compound on both GC columns. The quant reports listed many potential pesticide compounds for consideration. Comparison of the sample retention times to the retention time windows established during the initial calibration revealed that no additional pesticide compounds were detected in the associated samples. In addition, no shifts for surrogate compound retention times were noted to occur that might require consideration of compounds outside respective retention time windows.

A.2.2 Data Assessment (continued):

9. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for some additional qualification of the data. The following analytes, for the samples shown, were qualified because of MS/MSD:

The laboratory indicated in the case narrative that sample TP1A was used as the original to prepare the duplicate matrix spikes.

PCBs - The following sample data were either qualified as estimated "J" or rejected "R" due to exceeding matrix spike & duplicate spike recovery QC criteria:

<u>Original Sample</u>	<u>Spike Recovery</u>	<u>Qualifier</u>	<u>Compound(s)</u>
TP1A	1		

1 matrix spikes and Duplicate matrix spikes (TP1A MS & TP1A MSD) were analyzed at the same level of dilution (1:50) as the original sample (TP1A). The matrix spike and matrix spike duplicate recoveries were outside the QC limits. Using professional judgement, no qualification of associated PCB sample data was required due to MS/MSD criteria.

¹ Positive values only were qualified as estimated "J" in the indicated samples.

A.2.2 Data Assessment (continued):

10. OTHER QC DATA OUT OF SPECIFICATION (continued):

The following soil/sediment/solid sample data (other than TCLP data) were either qualified as estimated "J" (% solids between 10-50%) or rejected "R" (% solids < 10%) because the sample contains more than 50% water:

<u>Fraction</u>	<u>Percent Solids</u>	<u>Qualifier</u>	<u># Compounds</u>	<u>Sample(s)</u>
-----------------	-----------------------	------------------	--------------------	------------------

No qualification required due to percent solid criteria.

A.2.2 Data Assessment (continued):

10. OTHER QC DATA OUT OF SPECIFICATION (continued):

The following compounds were qualified as estimated "J" in the indicated samples because the on-column amount of these compounds exceeded the instrument's analytical range as defined by the highest concentration level of the Initial Calibration Sequence:

<u>Fraction</u>	<u>Sample(s)</u>	<u>Compound(s)</u>
-----------------	------------------	--------------------

No qualification required.

A.2.2 Data Assessment (continued):

11. This package contain re-extraction, re-analysis or dilution results. Upon reviewing the QA results, the following Form I(s) are identified to be used:

<u>PCB Fraction:</u>	<u>Use Sample(s)</u>	<u>Do Not Use Sample(s)</u>
	SS23, SS24, S23, S24, S25, S29, TP1A, TP1B, TP2A, TP2B DL, TP3A, TP3B, TP4A, TP5A & TP5B	SS23 DL, SS24 DL, S23 DL, S24 DL, S25 DL, S29 DL, TP1A DL, TP1B DL, TP2A DL, TP2B, TP3A DL, TP3B DL, TP4A DL, TP5A DL & TP5B DL

¹ Due to professional judgement, data from the indicated sample will be used instead of data from the associated sample re-analysis and/or dilution analysis because overall QC criteria is better met in the original sample analysis.

CONTRACT PROBLEMS _____ NON-COMPLIANCE:

Laboratory failed to qualify Form I's with an "E" qualifier to indicate their unreliability due to exceeding the calibration range. Data reviewer corrected Form I's.

OTHER ANALYTES WORK TABLE

Project: Cornell Dubilier Electronics Site

START PM: Kathy Campbell

Sampling Date: July 16, 1996

SAMPLE #/CONCENTRATION ($\mu\text{g}/\text{Kg}$)

Polychlorinated Biphenyl	Method Detection Limit	Soil SS23 239997 15 5.0	Soil SS24 239999 9 5.0	Soil S23 239996 8 50.0	Soil S24 239998 7 50.0	Soil S25 240000 15 500.0
Aroclor-1016	33.0	U	U	U	U	U
Aroclor-1221	67.0	U	U	U	U	U
Aroclor-1232	33.0	U	U	U	U	U
Aroclor-1242	33.0	U	U	U	U	U
Aroclor-1248	33.0	U	U	U	U	U
Aroclor-1254	33.0	34000 J	41000	270000	98000	4700000
Aroclor-1260	33.0	U	U	U	U	U
		Aroclor-1254 50 X D/F	Aroclor-1254 50 X D/F	Aroclor-1254 500 X D/F	Aroclor-1254 500 X D/F	Aroclor-1254 5000 X D/F

Polychlorinated Biphenyl	Method Detection Limit	Soil S29 240006 41 10000	Soil TP1A 239987 15 50	Soil TP1B 239988 12 30.0	Soil TP2A 239989 13 50.0	Soil TP2B 239990 13 10
Aroclor-1016	33.0	U	U	U	U	U
Aroclor-1221	67.0	U	U	U	U	U
Aroclor-1232	33.0	U	U	U	U	U
Aroclor-1242	33.0	U	U	U	U	U
Aroclor-1248	33.0	U	U	U	U	U
Aroclor-1254	33.0	51000000 J	180000	100000 J	150000	14000
Aroclor-1260	33.0	U	U	U	U	U
		Aroclor-1254 100000 X D/F	Aroclor-1254 500 X D/F	Aroclor-1254 300 X D/F	Aroclor-1254 500 X D/F	

Polychlorinated Biphenyl	Method Detection Limit	Soil TP3A 240003 13 5.0	Soil TP3B 240004 18 5.0	Soil TP4A 240005 24 50.0	Soil TP5A 240001 17 500.0	Soil TP5B 240002 46 1.0
Aroclor-1016	33.0	U	U	U	U	U
Aroclor-1221	67.0	U	U	U	U	U
Aroclor-1232	33.0	U	U	U	U	U
Aroclor-1242	33.0	U	U	U	U	U
Aroclor-1248	33.0	U	U	U	U	U
Aroclor-1254	33.0	23000 J	4000	400000	1900000 J	4600
Aroclor-1260	33.0	U	U	U	U	U
		Aroclor-1254 50 X D/F	Aroclor-1254 50 X D/F	Aroclor-1254 500 X D/F	Aroclor-1254 5000 X D/F	Aroclor-1254 10 X D/F

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

J - between the instrument detection limit (IDL) and the method detection limit (MDL)

JN - presumptive evidence of a compound at an estimated value

R - rejected compound

OTHER ANALYTES WORK TABLE

Project: Cornell Dubilier Electronics Site

START PM: Kathy Campbell

Sampling Date: July 16, 1996

SAMPLE #/CONCENTRATION ($\mu\text{g}/\text{Kg}$)

	Method Detection Limit	Soil TP6A 239991	Soil TP6B 239992	Soil TP8A 239993		
Polychlorinated Biphenyls						
Percent Solids		34	16	30		
Dilution Factor		1.0	1	1		
Aroclor-1016	33.0	U	U	U		
Aroclor-1221	67.0	U	U	U		
Aroclor-1232	33.0	U	U	U		
Aroclor-1242	33.0	U	U	U		
Aroclor-1248	33.0	U	U	U		
Aroclor-1254	33.0	U	37 J	130 J		
Aroclor-1260	33.0	U	U	U		

	Method Detection Limit					
Polychlorinated Biphenyls						
Percent Solids						
Dilution Factor						
Aroclor-1016						
Aroclor-1221						
Aroclor-1232						
Aroclor-1242						
Aroclor-1248						
Aroclor-1254						
Aroclor-1260						

	Method Detection Limit					
Polychlorinated Biphenyls						
Percent Solids						
Dilution Factor						
Aroclor-1016						
Aroclor-1221						
Aroclor-1232						
Aroclor-1242						
Aroclor-1248						
Aroclor-1254						
Aroclor-1260						

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

J - between the instrument detection limit (IDL)
and the method detection limit (MDL)

JN - presumptive evidence of a compound
at an estimated value

R - rejected compound

OTHER ANALYTES WORK TABLE

Project: Cornell Dubilier Electronics Site

START PM: Kathy Campbell

Sampling Date: July 16, 1996

SAMPLE #/CONCENTRATION ($\mu\text{g/L}$)

Polychlorinated Biphenyls	Method Detection Limit	Water RIN3 239994 NA 1.0				
Percent Solids						
Dilution Factor						
Aroclor-1016	1.0	U				
Aroclor-1221	2.0	U				
Aroclor-1232	1.0	U				
Aroclor-1242	1.0	U				
Aroclor-1248	1.0	U				
Aroclor-1254	1.0	U				
Aroclor-1260	1.0	U				

Polychlorinated Biphenyls	Method Detection Limit					
Percent Solids						
Dilution Factor						
Aroclor-1016						
Aroclor-1221						
Aroclor-1232						
Aroclor-1242						
Aroclor-1248						
Aroclor-1254						
Aroclor-1260						

Polychlorinated Biphenyls	Method Detection Limit					
Percent Solids						
Dilution Factor						
Aroclor-1016						
Aroclor-1221						
Aroclor-1232						
Aroclor-1242						
Aroclor-1248						
Aroclor-1254						
Aroclor-1260						

U - non-detected compound

B - detected in the corresponding method blank

J - estimated value

J - between the instrument detection limit (IDL) and the method detection limit (MDL)

JN - presumptive evidence of a compound at an estimated value

R - rejected compound

SDG NARRATIVE

LABORATORY NAME: Industrial Corrosion Management, Inc.
LOCATION: 1152 Route 10, Randolph, NJ 07869
CASE NAME: RFP No: 1416
CASE NUMBER: -----
SDG NUMBER: RIN3

Pesticides/PCBs:

1. Column utilized for Pesticide/PCB analysis: J&W Scientific DB608 30m x 0.53 ID, 0.83 um film thickness and J&W Scientific DB1701 30m x 0.53 ID, 1.0 um film thickness.

2. The following symbols will be used on the Pesticides/PCBs chromatograms:

OW = outside window
NP = No pattern of multicomponent compounds
<0.5 CRQL = Less than the CRQL value
NC = Not confirmed
NT = Non-targeted compound

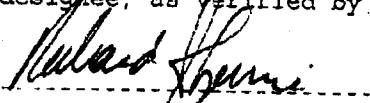
3. Due to software limitations, the following samples could not be reported as part of the analytical sequence on FORM VIII PEST: GPC BLK, GPC PEST, GPC PCB, Florisil Check and 2,4,5 Trichlorophenol.

4. Form VIII PEST: Surrogates are flagged as being outside the QC limits due to the surrogate being diluted out or interference from the high concentration of Aroclor in the sample.

5. Since high concentrations of Aroclor 1254 were detected in many of the samples, dilutions were prepared such that the resulting extract concentrations were in the acceptable quantitation range as defined in Section D.10.2.3.3 of the SOW, OLM03.1. In addition, the extract was analyzed at a concentration 10 times more concentrated as that within the quantitation range as per Section D.10.2.3.3. Results of the more concentrated run should have been flagged with an "E" to indicate their unreliability due to exceeding the calibration range. For some reason the new software we are using for this SOW version did not add this flag.

We should, therefore, caution that for every sample that was analyzed at more than one dilution, the results of the more diluted run should be considered as the reliable and useable number.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his designee, as verified by the following signature.



Richard S. Levine
Laboratory Manager

9/4/96

Date

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ICM

Contract:

RIN3

Lab Code: ICM

Case No.:

SAS No.:

SDG No.: RIN3

Matrix: (soil/water) WATER

Lab Sample ID: 239994

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 03522

% Moisture: _____ decanted: (Y/N) _____

Date Received: 07/17/96

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/22/96

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/27/96

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/L	Q
---------	----------	---	------	---

319-84-6-----alpha-BHC		.050	U
319-85-7-----beta-BHC		.050	U
319-86-8-----delta-BHC		.050	U
58-89-9-----gamma-BHC (Lindane)		.050	U
76-44-8-----Heptachlor		.050	U
309-00-2-----Aldrin		.050	U
1024-57-3-----Heptachlor epoxide		.050	U
959-98-8-----Endosulfan I		.050	U
60-57-1-----Dieldrin		.050	U
72-55-9-----4,4'-DDE		.10	U
72-20-8-----Endrin		.10	U
33213-65-9-----Endosulfan II		.10	U
72-54-8-----4,4'-DDD		.10	U
1031-07-8-----Endosulfan Sulfate		.10	U
50-29-3-----4,4'-DDT		.10	U
72-43-5-----Methoxychlor		.50	U
53494-70-5-----Endrin ketone		.10	U
7421-93-4-----Endrin aldehyde		.10	U
5103-71-9-----alpha-Chlordane		.050	U
5103-74-2-----gamma-Chlordane		.050	U
8001-35-2-----Toxaphene		5.0	U
12674-11-2-----Aroclor-1016		1.0	U
11104-28-2-----Aroclor-1221		2.0	U
11141-16-5-----Aroclor-1232		1.0	U
53469-21-9-----Aroclor-1242		1.0	U
12672-29-6-----Aroclor-1248		1.0	U
11097-69-1-----Aroclor-1254		1.0	U
11096-82-5-----Aroclor-1260		1.0	U

SS23

Lab Name: ICM

Contract:

Lab Code: ICM

Case No.:

SAS No.:

SDG No.: RIN3

Matrix: (soil/water) SOIL

Lab Sample ID: 239997

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: 03592

Moisture: 15. decanted: (Y/N) N

Date Received: 07/17/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/23/96

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/31/96

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

HPLC Cleanup: (Y/N) Y pH: 6.9

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg

Q

319-84-6-----alpha-BHC		9.9	U
319-85-7-----beta-BHC		9.9	U
319-86-8-----delta-BHC		9.9	U
58-89-9-----gamma-BHC (Lindane)		9.9	U
76-44-8-----Heptachlor		9.9	U
309-00-2-----Aldrin		9.9	U
1024-57-3-----Heptachlor epoxide		9.9	U
959-98-8-----Endosulfan I		9.9	U
60-57-1-----Dieldrin		19.	U
72-55-9-----4,4'-DDE		19.	U
72-20-8-----Endrin		19.	U
33213-65-9-----Endosulfan II		19.	U
72-54-8-----4,4'-DDD		19.	U
1031-07-8-----Endosulfan Sulfate		19.	U
50-29-3-----4,4'-DDT		19.	U
72-43-5-----Methoxychlor		99.	U
53494-70-5-----Endrin ketone		19.	U
7421-93-4-----Endrin aldehyde		19.	U
5103-71-9-----alpha-Chlordane		9.9	U
5103-74-2-----gamma-Chlordane		9.9	U
8001-35-2-----Toxaphene		990.	U
12674-11-2-----Aroclor-1016		190.	U
11104-28-2-----Aroclor-1221		390.	U
11141-16-5-----Aroclor-1232		190.	U
53469-21-9-----Aroclor-1242		190.	U
12672-29-6-----Aroclor-1248		190.	U
11097-69-1-----Aroclor-1254		190.	U
11096-82-5-----Aroclor-1260	34000, 15000*	190.	U

P JID*

D* Value transferred from
dilution analysis SS 23 DL
50 x D/F

FORM I PEST

OLM03.0

24

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ICM

Contract:

SS24

Lab Code: ICM

Case No.:

SAS No.:

SDG No.: RIN3

Matrix: (soil/water) SOIL

Lab Sample ID: 239999

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: 03593

% Moisture: 9. decanted: (Y/N) N

Date Received: 07/17/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/23/96

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/31/96

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.1

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/Kg	Q
319-84-6-----	alpha-BHC	9.3	U	
319-85-7-----	beta-BHC	9.3	U	
319-86-8-----	delta-BHC	9.3	U	
58-89-9-----	gamma-BHC (Lindane)	9.3	U	
76-44-8-----	Heptachlor	9.3	U	
309-00-2-----	Aldrin	9.3	U	
1024-57-3-----	Heptachlor epoxide	9.3	U	
959-98-8-----	Endosulfan I	9.3	U	
60-57-1-----	Dieldrin	18.	U	
72-55-9-----	4,4'-DDE	18.	U	
72-20-8-----	Endrin	18.	U	
33213-65-9-----	Endosulfan II	18.	U	
72-54-8-----	4,4'-DDD	18.	U	
1031-07-8-----	Endosulfan Sulfate	18.	U	
50-29-3-----	4,4'-DDT	18.	U	
72-43-5-----	Methoxychlor	93.	U	
53494-70-5-----	Endrin ketone	18.	U	
7421-93-4-----	Endrin aldehyde	18.	U	
5103-71-9-----	alpha-Chlordane	9.3	U	
5103-74-2-----	gamma-Chlordane	9.3	U	
8001-35-2-----	Toxaphene	930.	U	
12674-11-2-----	Aroclor-1016	180.	U	
11104-28-2-----	Aroclor-1221	370.	U	
11141-16-5-----	Aroclor-1232	180.	U	
53469-21-9-----	Aroclor-1242	180.	U	
12672-29-6-----	Aroclor-1248	180.	U	
11097-69-1-----	Aroclor-1254	180.	U	
11096-82-5-----	Aroclor-1260	180.	U	

41000. - 12000.

J*

Dilution value transferred from
dilution analysis 5524 DL

50 X D/F

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ICM

Contract:

S23

Lab Code: ICM

Case No.:

SAS No.:

SDG No.: RIN3

Matrix: (soil/water) SOIL

Lab Sample ID: 239996

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: 03536

% Moisture: 8. decanted: (Y/N) N

Date Received: 07/17/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/23/96

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/28/96

Injection Volume: 1.0 (uL)

Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y pH: 8.3

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/Kg	Q
319-84-6-----alpha-BHC		91.	U	
319-85-7-----beta-BHC		91.	U	
319-86-8-----delta-BHC		91.	U	
58-89-9-----gamma-BHC (Lindane)		91.	U	
76-44-8-----Heptachlor		91.	U	
309-00-2-----Aldrin		91.	U	
1024-57-3-----Heptachlor epoxide		91.	U	
959-98-8-----Endosulfan I		91.	U	
60-57-1-----Dieldrin		180.	U	
72-55-9-----4,4'-DDE		180.	U	
72-20-8-----Endrin		180.	U	
33213-65-9-----Endosulfan II		180.	U	
72-54-8-----4,4'-DDD		180.	U	
1031-07-8-----Endosulfan Sulfate		180.	U	
50-29-3-----4,4'-DDT		180.	U	
72-43-5-----Methoxychlor		910.	U	
53494-70-5-----Endrin ketone		180.	U	
7421-93-4-----Endrin aldehyde		180.	U	
5103-71-9-----alpha-Chlordane		91.	U	
5103-74-2-----gamma-Chlordane		91.	U	
8001-35-2-----Toxaphene		9100.	U	
12674-11-2-----Aroclor-1016		1800.	U	
11104-28-2-----Aroclor-1221		3600.	U	
11141-16-5-----Aroclor-1232		1800.	U	
53469-21-9-----Aroclor-1242		1800.	U	
12672-29-6-----Aroclor-1248		1800.	U	
11097-69-1-----Aroclor-1254		1800.	U	
11096-82-5-----Aroclor-1260		1800.	U	

770000 1500000 P-JW D*

D* Value transferred from
dilution analysis S23 DL
500X D/F

FORM I PEST

OLM03.0

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S24

Lab Name: ICM

Contract:

Lab Code: ICM

Case No.:

SAS No.:

SDG No.: RIN3

Matrix: (soil/water) SOIL

Lab Sample ID: 239998

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: 03538

% Moisture: 7. decanted: (Y/N) N

Date Received: 07/17/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/23/96

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/28/96

Injection Volume: 1.0 (uL)

Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y pH: 7.3

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/Kg	Q
---------	----------	---	-------	---

319-84-6-----alpha-BHC		90.	U
319-85-7-----beta-BHC		90.	U
319-86-8-----delta-BHC		90.	U
58-89-9-----gamma-BHC (Lindane)		90.	U
76-44-8-----Heptachlor		90.	U
309-00-2-----Aldrin		90.	U
1024-57-3-----Heptachlor epoxide		90.	U
959-98-8-----Endosulfan I		90.	U
60-57-1-----Dieldrin		170.	U
72-55-9-----4,4'-DDE		170.	U
72-20-8-----Endrin		170.	U
33213-65-9-----Endosulfan II		170.	U
72-54-8-----4,4'-DDD		170.	U
1031-07-8-----Endosulfan Sulfate		170.	U
50-29-3-----4,4'-DDT		170.	U
72-43-5-----Methoxychlor		900.	U
53494-70-5-----Endrin ketone		170.	U
7421-93-4-----Endrin aldehyde		170.	U
5103-71-9-----alpha-Chlordane		90.	U
5103-74-2-----gamma-Chlordane		90.	U
8001-35-2-----Toxaphene		9000.	U
12674-11-2-----Aroclor-1016		1700.	U
11104-28-2-----Aroclor-1221		3500.	U
11141-16-5-----Aroclor-1232		1700.	U
53469-21-9-----Aroclor-1242		1700.	U
12672-29-6-----Aroclor-1248		1700.	U
11097-69-1-----Aroclor-1254	98000, 92000	1700.	U
11096-82-5-----Aroclor-1260		1700.	U

D* Value transferred from
dilution analysis S24 DL
500 X D/F

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S25

Lab Name: ICM

Contract:

Lab Code: ICM

Case No.:

SAS No.:

SDG No.: RIN3

Matrix: (soil/water) SOIL

Lab Sample ID: 240000

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: 03540

% Moisture: 15. decanted: (Y/N) N

Date Received: 07/17/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/23/96

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/28/96

Injection Volume: 1.0 (uL)

Dilution Factor: 500.0

GPC Cleanup: (Y/N) Y pH: 7.9

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/Kg	Q
319-84-6-----alpha-BHC		990.	U	
319-85-7-----beta-BHC		990.	U	
319-86-8-----delta-BHC		990.	U	
58-89-9-----gamma-BHC (Lindane)		990.	U	
76-44-8-----Heptachlor		990.	U	
309-00-2-----Aldrin		990.	U	
1024-57-3-----Heptachlor epoxide		990.	U	
959-98-8-----Endosulfan I		990.	U	
60-57-1-----Dieldrin		1900.	U	
72-55-9-----4,4'-DDE		1900.	U	
72-20-8-----Endrin		1900.	U	
33213-65-9-----Endosulfan II		1900.	U	
72-54-8-----4,4'-DDD		1900.	U	
1031-07-8-----Endosulfan Sulfate		1900.	U	
50-29-3-----4,4'-DDT		1900.	U	
72-43-5-----Methoxychlor		9900.	U	
53494-70-5-----Endrin ketone		1900.	U	
7421-93-4-----Endrin aldehyde		1900.	U	
5103-71-9-----alpha-Chlordane		990.	U	
5103-74-2-----gamma-Chlordane		990.	U	
8001-35-2-----Toxaphene		99000.	U	
12674-11-2-----Aroclor-1016		19000.	U	
11104-28-2-----Aroclor-1221		39000.	U	
11141-16-5-----Aroclor-1232		19000.	U	
53469-21-9-----Aroclor-1242		19000.	U	
12672-29-6-----Aroclor-1248		19000.	U	
11097-69-1-----Aroclor-1254		19000.	U	
11096-82-5-----Aroclor-1260		19000.	U	

4700000
1700000

PR

D*

D*

Value transferred from
dilution analysis S25 DL
5000 x D/F

FORM I PEST

OLM03.0

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S29

1 b Name: ICM Contract:

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN3

Matrix: (soil/water) SOIL Lab Sample ID: 240006

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 03575

% Moisture: 41. decanted: (Y/N) N Date Received: 07/17/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/23/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/30/96

Injection Volume: 1.0 (uL) Dilution Factor: 10000.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/Kg	Q
319-84-6-----	alpha-BHC	29000.	U	
319-85-7-----	beta-BHC	29000.	U	
319-86-8-----	delta-BHC	29000.	U	
58-89-9-----	gamma-BHC (Lindane)	29000.	U	
76-44-8-----	Heptachlor	29000.	U	
309-00-2-----	Aldrin	29000.	U	
1024-57-3-----	Heptachlor epoxide	29000.	U	
959-98-8-----	Endosulfan I	29000.	U	
60-57-1-----	Dieldrin	56000.	U	
72-55-9-----	4,4'-DDE	56000.	U	
72-20-8-----	Endrin	56000.	U	
33213-65-9-----	Endosulfan II	56000.	U	
72-54-8-----	4,4'-DDD	56000.	U	
1031-07-8-----	Endosulfan Sulfate	56000.	U	
50-29-3-----	4,4'-DDT	56000.	U	
72-43-5-----	Methoxychlor	290000.	U	
53494-70-5-----	Endrin ketone	56000.	U	
7421-93-4-----	Endrin aldehyde	56000.	U	
5103-71-9-----	alpha-Chlordane	29000.	U	
5103-74-2-----	gamma-Chlordane	29000.	U	
8001-35-2-----	Toxaphene	2900000.	U	
12674-11-2-----	Aroclor-1016	560000.	U	
11104-28-2-----	Aroclor-1221	1100000.	U	
11141-16-5-----	Aroclor-1232	560000.	U	
53469-21-9-----	Aroclor-1242	560000.	U	
12672-29-6-----	Aroclor-1248	560000.	U	
11097-69-1-----	Aroclor-1254	2200000.	U	
11096-82-5-----	Aroclor-1260	560000.	U	

Stompy
2200000.

DTJ

D* value transferred from
dilution analysis S29 DL.

1000000 x D/F

FORM I PEST

OLM03.0

142

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Contract:

TP1A

Lab Name: ICM

Lab Code: ICM

Case No.:

SAS No.:

SDG No.: RIN3

Matrix: (soil/water) SOIL

Lab Sample ID: 239987

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: 03595

% Moisture: 15. decanted: (Y/N) N

Date Received: 07/17/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/23/96

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/31/96

Injection Volume: 1.0 (uL)

Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y pH: 7.8

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/Kg	Q
319-84-6-----	alpha-BHC	100.	U	
319-85-7-----	beta-BHC	100.	U	
319-86-8-----	delta-BHC	100.	U	
58-89-9-----	gamma-BHC (Lindane)	100.	U	
76-44-8-----	Heptachlor	100.	U	
309-00-2-----	Aldrin	100.	U	
1024-57-3-----	Heptachlor epoxide	100.	U	
959-98-8-----	Endosulfan I	100.	U	
60-57-1-----	Dieldrin	190.	U	
72-55-9-----	4,4'-DDE	190.	U	
72-20-8-----	Endrin	190.	U	
33213-65-9-----	Endosulfan II	190.	U	
72-54-8-----	4,4'-DDD	190.	U	
1031-07-8-----	Endosulfan Sulfate	190.	U	
50-29-3-----	4,4'-DDT	190.	U	
72-43-5-----	Methoxychlor	1000.	U	
53494-70-5-----	Endrin ketone	190.	U	
7421-93-4-----	Endrin aldehyde	190.	U	
5103-71-9-----	alpha-Chlordane	100.	U	
5103-74-2-----	gamma-Chlordane	100.	U	
8001-35-2-----	Toxaphene	10000.	U	
12674-11-2-----	Aroclor-1016	1900.	U	
11104-28-2-----	Aroclor-1221	3900.	U	
11141-16-5-----	Aroclor-1232	1900.	U	
53469-21-9-----	Aroclor-1242	1900.	U	
12672-29-6-----	Aroclor-1248	1900.	U	
11097-69-1-----	Aroclor-1254	180000	78000	I - D*
11096-82-5-----	Aroclor-1260	1900.	U	

D value transferred from
dilution analysis TP1A DL
500 X D/F*

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ICM

Contract:

TP1B

Lab Code: ICM

Case No.:

SAS No.:

SDG No.: RIN3

Matrix: (soil/water) SOIL

Lab Sample ID: 239988

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: 03594

% Moisture: 12. decanted: (Y/N) N

Date Received: 07/17/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/23/96

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/31/96

Injection Volume: 1.0 (uL)

Dilution Factor: 30.0

GPC Cleanup: (Y/N) Y pH: 7.1

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/Kg	Q
---------	----------	---	-------	---

319-84-6-----alpha-BHC		57.	U
319-85-7-----beta-BHC		57.	U
319-86-8-----delta-BHC		57.	U
58-89-9-----gamma-BHC (Lindane)		57.	U
76-44-8-----Heptachlor		57.	U
309-00-2-----Aldrin		57.	U
1024-57-3-----Heptachlor epoxide		57.	U
959-98-8-----Endosulfan I		57.	U
60-57-1-----Dieldrin		110.	U
72-55-9-----4,4'-DDE		110.	U
72-20-8-----Endrin		110.	U
33213-65-9-----Endosulfan II		110.	U
72-54-8-----4,4'-DDD		110.	U
1031-07-8-----Endosulfan Sulfate		110.	U
50-29-3-----4,4'-DDT		110.	U
72-43-5-----Methoxychlor		570.	U
53494-70-5-----Endrin ketone		110.	U
7421-93-4-----Endrin aldehyde		110.	U
5103-71-9-----alpha-Chlordane		57.	U
5103-74-2-----gamma-Chlordane		57.	U
8001-35-2-----Toxaphene		5700.	U
12674-11-2-----Aroclor-1016		1100.	U
11104-28-2-----Aroclor-1221		2300.	U
11141-16-5-----Aroclor-1232		1100.	U
53469-21-9-----Aroclor-1242		1100.	U
12672-29-6-----Aroclor-1248		1100.	U
11097-69-1-----Aroclor-1254		1100.	U
11096-82-5-----Aroclor-1260		1100.	U

10000069000-

J

D*

D* value transferred from
dilution analysis TP1B DL

300 x D/F.

FORM I PEST

OLM03.0

173

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: ICM

Contract:

TP2A

Lab Code: ICM

Case No.:

SAS No.:

SDG. No.: RIN3

Matrix: (soil/water) SOIL

Lab Sample ID: 239989

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: 03596

% Moisture: 13. decanted: (Y/N) N

Date Received: 07/17/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/23/96

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/31/96

Injection Volume: 1.0 (uL)

Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y pH: 7.3

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg Q

319-84-6-----alpha-BHC	96.	U
319-85-7-----beta-BHC	96.	U
319-86-8-----delta-BHC	96.	U
58-89-9-----gamma-BHC (Lindane)	96.	U
76-44-8-----Heptachlor	96.	U
309-00-2-----Aldrin	96.	U
1024-57-3-----Heptachlor epoxide	96.	U
959-98-8-----Endosulfan I	96.	U
60-57-1-----Dieldrin	190.	U
72-55-9-----4,4'-DDE	190.	U
72-20-8-----Endrin	190.	U
33213-65-9-----Endosulfan II	190.	U
72-54-8-----4,4'-DDD	190.	U
1031-07-8-----Endosulfan Sulfate	190.	U
50-29-3-----4,4'-DDT	190.	U
72-43-5-----Methoxychlor	960.	U
53494-70-5-----Endrin ketone	190.	U
7421-93-4-----Endrin aldehyde	190.	U
5103-71-9-----alpha-Chlordane	96.	U
5103-74-2-----gamma-Chlordane	96.	U
8001-35-2-----Toxaphene	9600.	U
12674-11-2-----Aroclor-1016	1900.	U
11104-28-2-----Aroclor-1221	3800.	U
11141-16-5-----Aroclor-1232	1900.	U
53469-21-9-----Aroclor-1242	1900.	U
12672-29-6-----Aroclor-1248	1900.	U
11097-69-1-----Aroclor-1254	1900.	U
11096-82-5-----Aroclor-1260	1900.	U

150000
100000

D*

Value transferred from
dilution analysis TP2A

DL

500 X 01F

FORM I PEST

OLM03.0

262

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ICM

Contract:

TP2B DL

Lab Code: ICM Case No.: SAS No.: SDG No.: RIN3

Matrix: (soil/water) SOIL Lab Sample ID: 239990

Sample wt/vol: 30.6 (g/mL) G Lab File ID: 03529

% Moisture: 13. decanted: (Y/N) N Date Received: 07/17/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/23/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/27/96

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/Kg	Q
---------	----------	---	-------	---

319-84-6-----alpha-BHC		19.	U	
319-85-7-----beta-BHC		19.	U	
319-86-8-----delta-BHC		19.	U	
58-89-9-----gamma-BHC (Lindane)		19.	U	
76-44-8-----Heptachlor		19.	U	
309-00-2-----Aldrin		19.	U	
1024-57-3-----Heptachlor epoxide		19.	U	
959-98-8-----Endosulfan I		19.	U	
60-57-1-----Dieldrin		37.	U	
72-55-9-----4,4'-DDE		37.	U	
72-20-8-----Endrin		37.	U	
33213-65-9-----Endosulfan II		37.	U	
72-54-8-----4,4'-DDD		37.	U	
1031-07-8-----Endosulfan Sulfate		37.	U	
50-29-3-----4,4'-DDT		37.	U	
72-43-5-----Methoxychlor		190.	U	
53494-70-5-----Endrin ketone		37.	U	
7421-93-4-----Endrin aldehyde		37.	U	
5103-71-9-----alpha-Chlordane		19.	U	
5103-74-2-----gamma-Chlordane		19.	U	
8001-35-2-----Toxaphene		1900.	U	
12674-11-2-----Aroclor-1016		370.	U	
11104-28-2-----Aroclor-1221		380.	U	
11141-16-5-----Aroclor-1232		370.	U	
53469-21-9-----Aroclor-1242		370.	U	
12672-29-6-----Aroclor-1248		370.	U	
11097-69-1-----Aroclor-1254		14000.	D	
11096-82-5-----Aroclor-1260		370.	U	

use these dates

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP3A

Lab Name: ICM

Contract:

Lab Code: ICM

Case No.:

SAS No.:

SDG No.: RIN3

Matrix: (soil/water) SOIL

Lab Sample ID: 240003

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: 03590

% Moisture: 13. decanted: (Y/N) N

Date Received: 07/17/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/23/96

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/31/96

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.3

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/Kg	Q
---------	----------	---	-------	---

319-84-6-----	alpha-BHC		9.7	U
319-85-7-----	beta-BHC		9.7	U
319-86-8-----	delta-BHC		9.7	U
58-89-9-----	gamma-BHC (Lindane)		9.7	U
76-44-8-----	Heptachlor		9.7	U
309-00-2-----	Aldrin		9.7	U
1024-57-3-----	Heptachlor epoxide		9.7	U
959-98-8-----	Endosulfan I		9.7	U
60-57-1-----	Dieldrin		19.	U
72-55-9-----	4,4'-DDE		19.	U
72-20-8-----	Endrin		19.	U
33213-65-9-----	Endosulfan II		19.	U
72-54-8-----	4,4'-DDD		19.	U
1031-07-8-----	Endosulfan Sulfate		19.	U
50-29-3-----	4,4'-DDT		19.	U
72-43-5-----	Methoxychlor		97.	U
53494-70-5-----	Endrin ketone		19.	U
7421-93-4-----	Endrin aldehyde		19.	U
5103-71-9-----	alpha-Chlordane		9.7	U
5103-74-2-----	gamma-Chlordane		9.7	U
8001-35-2-----	Toxaphene		970.	U
12674-11-2-----	Aroclor-1016		190.	U
11104-28-2-----	Aroclor-1221		380.	U
11141-16-5-----	Aroclor-1232		190.	U
53469-21-9-----	Aroclor-1242		190.	U
12672-29-6-----	Aroclor-1248		190.	U
11097-69-1-----	Aroclor-1254		190.	U
11096-82-5-----	Aroclor-1260		190.	U

23000 8700

P I D*

D* Value transferred
From dilution analysis
TP3A DL

FORM I PEST

SO X D/F

OLM03.0

240

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ICM

Contract:

TP3B

Lab Code: ICM

Case No.:

SAS No.:

SDG No.: RIN3

Matrix: (soil/water) SOIL

Lab Sample ID: 240004

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: 03591

Moisture: 18. decanted: (Y/N) N

Date Received: 07/17/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/23/96

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/31/96

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 6.2

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/Kg	Q
319-84-6-----alpha-BHC		10.	U	
319-85-7-----beta-BHC		10.	U	
319-86-8-----delta-BHC		10.	U	
58-89-9-----gamma-BHC (Lindane)		10.	U	
76-44-8-----Heptachlor		10.	U	
309-00-2-----Aldrin		10.	U	
1024-57-3-----Heptachlor epoxide		10.	U	
959-98-8-----Endosulfan I		10.	U	
60-57-1-----Dieldrin		20.	U	
72-55-9-----4,4'-DDE		20.	U	
72-20-8-----Endrin		20.	U	
33213-65-9-----Endosulfan II		20.	U	
72-54-8-----4,4'-DDD		20.	U	
1031-07-8-----Endosulfan Sulfate		20.	U	
50-29-3-----4,4'-DDT		20.	U	
72-43-5-----Methoxychlor		100.	U	
53494-70-5-----Endrin ketone		20.	U	
7421-93-4-----Endrin aldehyde		20.	U	
5103-71-9-----alpha-Chlordane		10.	U	
5103-74-2-----gamma-Chlordane		10.	U	
8001-35-2-----Toxaphene		1000.	U	
12674-11-2-----Aroclor-1016		200.	U	
11104-28-2-----Aroclor-1221		400.	U	
11141-16-5-----Aroclor-1232		200.	U	
53469-21-9-----Aroclor-1242		200.	U	
12672-29-6-----Aroclor-1248		200.	U	
11097-69-1-----Aroclor-1254		200.	U	
11096-82-5-----Aroclor-1260		200.	U	

4000-1600-

D* Value transferred from
dilution analysis TP3B OL

50 x D/F

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ICM

Contract:

TP4A

Lab Code: ICM

Case No.:

SAS No.:

SDG No.: RIN3

Matrix: (soil/water) SOIL

Lab Sample ID: 240005

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: 03547

Moisture: 24. decanted: (Y/N) N

Date Received: 07/17/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/23/96

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/28/96

Injection Volume: 1.0 (uL)

Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y pH: 7.4

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/Kg	Q
319-84-6-----	alpha-BHC	110.	U	
319-85-7-----	beta-BHC	110.	U	
319-86-8-----	delta-BHC	110.	U	
58-89-9-----	gamma-BHC (Lindane)	110.	U	
76-44-8-----	Heptachlor	110.	U	
309-00-2-----	Aldrin	110.	U	
1024-57-3-----	Heptachlor epoxide	110.	U	
959-98-8-----	Endosulfan I	110.	U	
60-57-1-----	Dieldrin	210.	U	
72-55-9-----	4,4'-DDE	210.	U	
72-20-8-----	Endrin	210.	U	
33213-65-9-----	Endosulfan II	210.	U	
72-54-8-----	4,4'-DDD	210.	U	
1031-07-8-----	Endosulfan Sulfate	210.	U	
50-29-3-----	4,4'-DDT	210.	U	
72-43-5-----	Methoxychlor	1100.	U	
53494-70-5-----	Endrin ketone	210.	U	
7421-93-4-----	Endrin aldehyde	210.	U	
5103-71-9-----	alpha-Chlordane	110.	U	
5103-74-2-----	gamma-Chlordane	110.	U	
8001-35-2-----	Toxaphene	11000.	U	
12674-11-2-----	Aroclor-1016	2100.	U	
11104-28-2-----	Aroclor-1221	4400.	U	
11141-16-5-----	Aroclor-1232	2100.	U	
53469-21-9-----	Aroclor-1242	2100.	U	
12672-29-6-----	Aroclor-1248	2100.	U	
11097-69-1-----	Aroclor-1254	2100.	U	
11096-82-5-----	Aroclor-1260	2100.	U	
<i>4000000</i>				<i>PJ</i>

D Value transferred from dilution analysis TP4A DL**500 X P/F*

FORM I PEST

OLM03.0

277

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ICM

Contract:

TP5A

Lab Code: ICM

Case No.:

SAS No.:

SDG No.: RIN3

Matrix: (soil/water) SOIL

Lab Sample ID: 240001

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: 03588

% Moisture: 17. decanted: (Y/N) N

Date Received: 07/17/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/23/96

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/31/96

Injection Volume: 1.0 (uL)

Dilution Factor: 500.0

GPC Cleanup: (Y/N) Y pH: 7.5

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg Q

319-84-6-----alpha-BHC	1000.	U
319-85-7-----beta-BHC	1000.	U
319-86-8-----delta-BHC	1000.	U
58-89-9-----gamma-BHC (Lindane)	1000.	U
76-44-8-----Heptachlor	1000.	U
309-00-2-----Aldrin	1000.	U
1024-57-3-----Heptachlor epoxide	1000.	U
959-98-8-----Endosulfan I	1000.	U
60-57-1-----Dieldrin	2000.	U
72-55-9-----4,4'-DDE	2000.	U
72-20-8-----Endrin	2000.	U
33213-65-9-----Endosulfan II	2000.	U
72-54-8-----4,4'-DDD	2000.	U
1031-07-8-----Endosulfan Sulfate	2000.	U
50-29-3-----4,4'-DDT	2000.	U
72-43-5-----Methoxychlor	10000.	U
53494-70-5-----Endrin ketone	2000.	U
7421-93-4-----Endrin aldehyde	2000.	U
5103-71-9-----alpha-Chlordane	1000.	U
5103-74-2-----gamma-Chlordane	1000.	U
8001-35-2-----Toxaphene	100000.	U
12674-11-2-----Aroclor-1016	20000.	U
11104-28-2-----Aroclor-1221	40000.	U
11141-16-5-----Aroclor-1232	20000.	U
53469-21-9-----Aroclor-1242	20000.	U
12672-29-6-----Aroclor-1248	20000.	U
11097-69-1-----Aroclor-1254	190000. 1100000.	D*
11096-82-5-----Aroclor-1260	20000.	U

P J D*

D* Value factored from
Dilution analysis TP5A DL
5000 X D/F

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ICM

Contract:

TP5B

Lab Code: ICM

Case No.:

SAS No.:

SDG No.: RIN3

Matrix: (soil/water) SOIL

Lab Sample ID: 240002

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: 03589

% Moisture: 46. decanted: (Y/N) N

Date Received: 07/17/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/23/96

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/31/96

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/Kg	Q
319-84-6-----	alpha-BHC	3.1	U	
319-85-7-----	beta-BHC	3.1	U	
319-86-8-----	delta-BHC	3.1	U	
58-89-9-----	gamma-BHC (Lindane)	3.1	U	
76-44-8-----	Heptachlor	3.1	U	
309-00-2-----	Aldrin	3.1	U	
1024-57-3-----	Heptachlor epoxide	3.1	U	
959-98-8-----	Endosulfan I	3.1	U	
60-57-1-----	Dieldrin	6.0	U	
72-55-9-----	4,4'-DDE	6.0	U	
72-20-8-----	Endrin	6.0	U	
33213-65-9-----	Endosulfan II	6.0	U	
72-54-8-----	4,4'-DDD	6.0	U	
1031-07-8-----	Endosulfan Sulfate	6.0	U	
50-29-3-----	4,4'-DDT	6.0	U	
72-43-5-----	Methoxychlor	31.	U	
53494-70-5-----	Endrin ketone	6.0	U	
7421-93-4-----	Endrin aldehyde	6.0	U	
5103-71-9-----	alpha-Chlordane	3.1	U	
5103-74-2-----	gamma-Chlordane	3.1	U	
8001-35-2-----	Toxaphene	310.	U	
12674-11-2-----	Aroclor-1016	60.	U	
11104-28-2-----	Aroclor-1221	120.	U	
11141-16-5-----	Aroclor-1232	60.	U	
53469-21-9-----	Aroclor-1242	60.	U	
12672-29-6-----	Aroclor-1248	60.	U	
11097-69-1-----	Aroclor-1254	60.	U	
11096-82-5-----	Aroclor-1260	60.	U	

4600 - 3100 - 25 - D*

D* Value transferred from
dilution analysis TP5B DL

10 x D/F

FORM I PEST

OLM03.0
323

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP6A

Lab Name: ICM

Contract:

Lab Code: ICM

Case No.:

SAS No.:

SDG No.: RIN3

Matrix: (soil/water) SOIL

Lab Sample ID: 239991

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: 03564

Moisture: 34. decanted: (Y/N) N

Date Received: 07/17/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/23/96

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/29/96

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.3

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg

CAS NO.	COMPOUND		
319-84-6	alpha-BHC	2.6	U
319-85-7	beta-BHC	2.6	U
319-86-8	delta-BHC	2.6	U
58-89-9	gamma-BHC (Lindane)	2.6	U
76-44-8	Heptachlor	2.6	U
309-00-2	Aldrin	2.6	U
1024-57-3	Heptachlor epoxide	2.6	U
959-98-8	Endosulfan I	2.6	U
60-57-1	Dieldrin	5.0	U
72-55-9	4,4'-DDE	5.0	U
72-20-8	Endrin	5.0	U
33213-65-9	Endosulfan II	5.0	U
72-54-8	4,4'-DDD	5.0	U
1031-07-8	Endosulfan Sulfate	5.0	U
50-29-3	4,4'-DDT	5.0	U
72-43-5	Methoxychlor	26.	U
53494-70-5	Endrin ketone	5.0	U
7421-93-4	Endrin aldehyde	5.0	U
5103-71-9	alpha-Chlordane	2.6	U
5103-74-2	gamma-Chlordane	2.6	U
8001-35-2	Toxaphene	260.	U
12674-11-2	Aroclor-1016	50.	U
11104-28-2	Aroclor-1221	100.	U
11141-16-5	Aroclor-1232	50.	U
53469-21-9	Aroclor-1242	50.	U
12672-29-6	Aroclor-1248	50.	U
11097-69-1	Aroclor-1254	50.	U
11096-82-5	Aroclor-1260	50.	U

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ICM

Contract:

TP6B

Lab Code: ICM

Case No.:

SAS No.:

SDG No.: RIN3

Matrix: (soil/water) SOIL

Lab Sample ID: 239992

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: 03565

% Moisture: 16. decanted: (Y/N) N

Date Received: 07/17/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/23/96

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/29/96

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/Kg	Q
319-84-6-----	alpha-BHC		2.0	U
319-85-7-----	beta-BHC		2.0	U
319-86-8-----	delta-BHC		2.0	U
58-89-9-----	gamma-BHC (Lindane)		2.0	U
76-44-8-----	Heptachlor		2.0	U
309-00-2-----	Aldrin		2.0	U
1024-57-3-----	Heptachlor epoxide		2.0	U
959-98-8-----	Endosulfan I		2.0	U
60-57-1-----	Dieldrin		3.9	U
72-55-9-----	4,4'-DDE		3.9	U
72-20-8-----	Endrin		3.9	U
33213-65-9-----	Endosulfan II		3.9	U
72-54-8-----	4,4'-DDD		3.9	U
1031-07-8-----	Endosulfan Sulfate		3.9	U
50-29-3-----	4,4'-DDT		3.9	U
72-43-5-----	Methoxychlor		20.	U
53494-70-5-----	Endrin ketone		3.9	U
7421-93-4-----	Endrin aldehyde		3.9	U
5103-71-9-----	alpha-Chlordane		2.0	U
5103-74-2-----	gamma-Chlordane		2.0	U
8001-35-2-----	Toxaphene		200.	U
12674-11-2-----	Aroclor-1016		39.	U
11104-28-2-----	Aroclor-1221		78.	U
11141-16-5-----	Aroclor-1232		39.	U
53469-21-9-----	Aroclor-1242		39.	U
12672-29-6-----	Aroclor-1248		39.	U
11097-69-1-----	Aroclor-1254		37.	J
11096-82-5-----	Aroclor-1260		39.	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ICM

Contract:

TP8A

Lab Code: ICM

Case No.:

SAS No.:

SDG No.: RIN3

Matrix: (soil/water) SOIL

Lab Sample ID: 239993

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: 03566

Moisture: 30. decanted: (Y/N) N

Date Received: 07/17/96

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 07/23/96

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 07/30/96

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/Kg	Q
319-84-6-----	alpha-BHC	2.4	U	
319-85-7-----	beta-BHC	2.4	U	
319-86-8-----	delta-BHC	2.4	U	
58-89-9-----	gamma-BHC (Lindane)	2.4	U	
76-44-8-----	Heptachlor	2.4	U	
309-00-2-----	Aldrin	2.4	U	
1024-57-3-----	Heptachlor epoxide	2.4	U	
959-98-8-----	Endosulfan I	2.4	U	
60-57-1-----	Dieldrin	4.7	U	
72-55-9-----	4,4'-DDE	4.7	U	
72-20-8-----	Endrin	4.7	U	
33213-65-9-----	Endosulfan II	4.7	U	
72-54-8-----	4,4'-DDD	4.7	U	
1031-07-8-----	Endosulfan Sulfate	4.7	U	
50-29-3-----	4,4'-DDT	4.7	U	
72-43-5-----	Methoxychlor	24.	U	
53494-70-5-----	Endrin ketone	4.7	U	
7421-93-4-----	Endrin aldehyde	4.7	U	
5103-71-9-----	alpha-Chlordane	2.4	U	
5103-74-2-----	gamma-Chlordane	2.4	U	
8001-35-2-----	Toxaphene	240.	U	
12674-11-2-----	Aroclor-1016	47.	U	
11104-28-2-----	Aroclor-1221	96.	U	
11141-16-5-----	Aroclor-1232	47.	U	
53469-21-9-----	Aroclor-1242	47.	U	
12672-29-6-----	Aroclor-1248	47.	U	
11097-69-1-----	Aroclor-1254	130.		P
11096-82-5-----	Aroclor-1260	47.	U	X

RFP No.:

1416

PO No.:

52-65625

CHAIN OF CUSTODY RECORD

The Laboratory should send verbal and written results to the attention of Smita Sumbaly, START Analytical Coordinator

Matrix Box No. 6:

1. Surface Water
2. Ground Water
3. Leachates
4. Rinsates
5. Soil/Sediment
6. Oil
7. Waste
8. Other (Specify)

Preservative Box No. 7:

1. HCl
2. HNO3
3. Na2SO4
4. H2SO4
5. Other (Specify)
6. Ice Only
- N. Not Preserved

Name of Unit and Address:



Suite 201

1090 King Georges Post Road, Edison, New Jersey 08837-3703

Phone: 908-225-5116 Fax: 908-225-7037

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix Code box 6 Pn	Sample Conc. LM/H	Sample Type C/G	Sample Preservat. Code from box 7	RAS ANALYSIS			ICP/AA ANALYSIS			OTHER
						VOA	ENR	PEST/PCB	TAL/CY	IGN	COR	
TP1A	7/16/96 9:50	5	M/H	G	6			X			239987	Cd, Cr Pb, Ag Ag MS/MSD
TP1B	7/16/96 10:05	5	M/H	G	6			X			239988	Cd Cr Pb Hg Ag
TP2A	7/16/96 10:55	5	M/H	G	6			X			239989	Cd, Cr Pb Hg Ag
TP2B	7/16/96 11:05	5	M/H	G	6			X			239990	Cd Cr Pb Hg Ag
TP6A	7/16/96 12:15	5	M/H	G	6			X			239991	Cd Cr Pb Hg Ag
TP6B	7/16/96 12:30	5	M/H	G	6			X			239992	Cd Cr Pb Hg Ag
TP8A	7/16/96 12:15	5	M/H	G	6			X			239993	Cd Cr Pb Hg Ag
2iv 3	7/16/96 13:10 13:10 4:40	4	L	G	6			X			239994	
2iv 3	7/16/96 13:10 4:40	4	L	G	2,6			X			239995	SUBSET PER LAB. DIR.
S23	7/16/96 14:10	5	M/H	G	6			X			239996	Cd Cr Pb Hg Ag
SS23	7/16/96 14:20	5	M/H	G	6			X			239997	Cd Cr Pb Hg Ag
S24	7/16/96 14:00	5	M/H	G	6			X			239998	Cd Cr Pb Hg Ag
SS24	7/16/96 14:15	5	M/H	G	6			X			239999	Cd Cr Pb Hg Ag

Person Assuming Responsibility for Sample:

Sample Number	Relinquished By:	Time	Date	Received By:	Time	Date (MM/DD/YY)
All	Jennifer Lealif	8:30	06/06/96	Susany S. Kette	17:30	7/16/96

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
All	Susany S. Kette	10:15	06/06/96	Paul J. Sims	Delivery to Lab

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
					Receipt at lab

Roy F. Weston, Inc.

FEDERAL PROGRAMS DIVISION

Association with Resource Applications, Inc., P.P. Services Associates, PRC Environmental Management

192

1

START DATA SIGN-OFF SHEET

Task/Site: Correll-Dubiller ElectronicsTDD #: 02-9506-21 PCS #: 14116Sampling Date: JULY 16, 1996 Date Received: 8/19/96DCN #: START-02-F-00498 Lab: ICMMatrix: Solid # Samples: 18 Analysis: Pb, Tl, Cd, Hg & Ag
Aqueous 1 Pb, Tl, Cd, Hg & Ag

DATA PACKAGE CHAIN OF CUSTODY					
RELINQUISHED BY:			RECEIVED BY:		
Signature:	Date:	Fraction:	Signature:	Date:	Fraction:
<u>Anita Sumbel</u>	<u>8/23</u>	<u>Torrefac</u>	<u>Anita Sumbel</u>	<u>8/27</u>	<u>Torrefac</u>

- 1.
-
- Data Reviewer

Anita Sumbel
Name8/27/96
Date

- 2.
-
- Group Leader/Peer Review

Name

Date

- 3.
-
- Approval (Group Leader/Team Mgr.)

JM Sumbel
Name8/27/96
Date